

Quiz 5.1 - 5.2 Studyguide

Quiz is on Tuesday, January 31

Study guide is due on Monday, January 30

This study guide is made up of 5 sections. You must complete at least 4 problems in each section for a total of at least 20 problems. Show your work on a separate page (pages 127 + 128 in your notebook) to receive full credit.

- You may choose to do more problems in a section if you want extra practice. Each section has an optional quick check that allows you to try a problem and check it (on the back) prior to trying other problems in the section.
- If you need help, the video code for each section is provided. Go to phschool.com and type in the code for videos on how to approach those types of problems.

Flashback Skill | Simplifying Fractions (aqe-0409)

Simplify each fraction

Quick Check: $\frac{45}{60} =$	1. $\frac{35}{60} =$	2. $\frac{4}{18} =$	3. $\frac{40}{90} =$	4. $\frac{18}{20} =$
	5. $\frac{15}{30} =$	6. $\frac{36}{72} =$	7. $\frac{4}{32} =$	8. $\frac{9}{16} =$

Flashback Skill | Changing Improper fractions to Mixed Numbers + possibly simplifying (aqe-0406)

Simplify each fraction

Quick Check: $\frac{45}{40} =$	1. $\frac{45}{20} =$	2. $\frac{78}{60} =$	3. $\frac{45}{30} =$	4. $7\frac{8}{5} =$
	5. $\frac{23}{14} =$	6. $8\frac{8}{6} =$	7. $\frac{45}{7} =$	8. $\frac{33}{8} =$

5-1 Estimating Sums and Differences (aqe-0501)

Quick Check: $\frac{9}{10} =$	Round to the closest benchmark. Use 0, $\frac{1}{2}$, and 1. Justify your choice using a complete sentence. 1. $\frac{5}{6} =$ 2. $\frac{5}{60} =$ 3. $\frac{16}{20} =$
Quick Check: $7\frac{3}{5} + \frac{9}{20} =$	Estimate each sum or difference. 4. $\frac{3}{10} + 6\frac{9}{10} =$ 5. $\frac{5}{6} - \frac{1}{3} =$ 6. $\frac{17}{20} + \frac{9}{19} =$

Turn over -----

5-2A Adding fractions with like denominators (aqe-0502)

Find each sum. Make sure your answer is in simplest form!!!

Quick Check: $7\frac{3}{5} + \frac{4}{5} =$	1. $\frac{3}{20} + \frac{9}{20} =$ 2. $5\frac{3}{5} + \frac{4}{5} =$ 3. $\frac{7}{12} + \frac{9}{12} =$ 4. $8\frac{5}{6} + \frac{5}{6}$ 5. $2\frac{3}{4} + 4\frac{1}{4}$ 6. $3\frac{13}{14} + 1\frac{11}{14}$
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5-2B Subtracting fractions with like denominators (aqe-0502)

Find each difference. Make sure your answer is in simplest form!!!

Quick Check: $7\frac{1}{5} - 1\frac{4}{5} =$	1. $1\frac{3}{20} - \frac{9}{20} =$ 2. $5\frac{3}{5} - 2\frac{4}{5} =$ 3. $11\frac{7}{12} - 5\frac{9}{12} =$ 4. $8\frac{3}{6} - 3\frac{5}{6}$ 5. $12\frac{3}{4} - 4\frac{1}{4}$ 6. $3\frac{3}{14} - 1\frac{11}{14}$
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Quick Check Key:

$$\frac{45}{60} \div \frac{5}{5} = \frac{9}{12} \div \frac{3}{3} = \boxed{\frac{3}{4}}$$

$$\frac{45}{40} = 40 \overline{)45}^1 \frac{5}{5} = 1\frac{5}{40} \div \frac{5}{5} = \boxed{1\frac{1}{8}}$$

$\frac{9}{10} \approx 1$ b/c the numerator and denominator are close to each other.

$$7\frac{3}{5} + \frac{9}{20} \approx 8 + \frac{1}{2} \approx 8\frac{1}{2}$$

$$7\frac{3}{5} + \frac{4}{5} = 7\frac{7}{5}$$

↓

$$7 + 1\frac{2}{5} = \boxed{8\frac{2}{5}}$$

$$6\frac{1}{5} + \frac{5}{5} = \frac{6}{5}$$

$$- 1\frac{4}{5}$$

$$\boxed{5\frac{2}{5}}$$